

## ABSTRACT OF THE DISCLOSURE

A method and a motherboard for automatically determining the memory type. By applying the characteristics of different operational voltages for various dynamic random access memory modules, a software program is used to drive a control signal and to automatically adjust the control voltage of the dynamic random access memory. An automatic detection of the types of the dynamic random access memory is obtained. The objectives of protecting the dynamic random access memory and to allow the dynamic random access memory to operate normally can thus be achieved. The invention not only provides the detection mechanism for accessing the dynamic random access memory during the initial activation of the computer system, but also determines the voltages required by the memory module for the computer system to enter various power saving modes.